

TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

11265

IFR TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

Civil Airports and Selected Military Airports

ALL USERS: Airports that have Departure Procedures (DPs) designed specifically to assist pilots in avoiding obstacles during the climb to the minimum enroute altitude, and/or airports that have civil IFR take-off minimums other than standard, are listed below. Take-off Minimums and Departure Procedures apply to all runways unless otherwise specified. Altitudes, unless otherwise indicated, are minimum altitudes in MSL.

DPs specifically designed for obstacle avoidance are referred to as Obstacle Departure Procedures (ODPs) and are described below in text, or published separately as a graphic procedure. If the (Obstacle) DP is published as a graphic procedure, its name will be listed below, and it can be found in either this volume (civil), or the applicable military volume, as appropriate. Users will recognize graphic obstacle DPs by the term "(OBSTACLE)" included in the procedure title; e.g., TETON TWO (OBSTACLE). If not specifically assigned a departure procedure (i.e., ODP, SID, or radar vector) as part of an IFR clearance, an ODP may be required to be flown for obstacle clearance, even though not specifically stated in the IFR clearance. When doing so in this manner, ATC should be informed when the ODP being used contains a specified route to be flown, restrictions before turning, and/or altitude restrictions.

Graphic DPs designed by ATC to standardize traffic flows, ensure aircraft separation and enhance capacity are referred to as "Standard Instrument Departures (SIDs)". SIDs also provide obstacle clearance and are published under the appropriate airport section. ATC clearance must be received prior to flying a SID.

CIVIL USERS NOTE: Title 14 Code of Federal Regulations Part 91 prescribes standard take-off rules and establishes take-off minimums for certain operators as follows: (1) Aircraft having two engines or less - one statute mile. (2) Aircraft having more than two engines - one-half statute mile. These standard minima apply in the absence of any different minima listed below.

MILITARY USERS NOTE: Civil (nonstandard) take-off minima are published below. For military take-off minima, refer to appropriate service directives.

| NAME | TAKE-OFF MINIMUMS | NAME | TAKE-OFF MINIMUMS |
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EAST CENTRAL VOL 1

EAST CENTRAL VOL 2

MANISTEE, MI

MANISTEE COUNTY-BLACKER (MBL)

AMDT 6 11265 (FAA)

TAKE-OFF MINIMUMS: **Rwy 36**, 200-1½ or std. w/ min. climb of 336' per NM to 900.

DEPARTURE PROCEDURE: **Rwy 36**, climb heading 002° to 1400 before turning right.

NOTE: **Rwy 9**, trees beginning 2701' from DER, on centerline, 100' AGL/727' MSL. Vehicle on road 101' from DER, 393' left of centerline, 15' AGL/636' MSL.

Rwy 18, trees beginning 79' from DER, 105' left of centerline, up to 100' AGL/678' MSL. Trees beginning 1005' from DER, 366' right of centerline, up to 81' AGL/675' MSL. **Rwy 27**, trees beginning 21' from DER, 86' left of centerline, up to 93' AGL/687' MSL. Trees beginning 2197' from DER, 57' right of centerline, up to 84' AGL/678' MSL. **Rwy 36**, vehicle on road 484' from DER, 158' right of centerline, 15' AGL/632' MSL. Building 3301' from DER, 1095' right of centerline, 33' AGL/727' MSL. Trees beginning 1170' from DER, 127' left of centerline, 110' AGL/806' MSL.

BEDFORD, IN

VIRGIL I GRISSOM MUNI (BFR)

ORIG 11265 (FAA)

NOTE: **Rwy 6**, trees beginning 321' from DER, left and right of centerline, up to 112' AGL/830' MSL. **Rwy 13**, trees beginning 78' from DER, left and right of centerline, up to 110' AGL/849' MSL. **Rwy 24**, trees beginning 534' from DER, left and right of centerline, up to 100' AGL/800' MSL. **Rwy 31**, trees beginning 27' from DER, left and right of centerline, up to 107' AGL/806' MSL.

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EAST CENTRAL VOL 2
(CON'T)

ELKHART, IN

ELKHART MUNI (EKM)
ORIG 11265 (FAA)

NOTE: **Rwy 9**, trees beginning 2039' from DER, 768' right of centerline, up to 68' AGL/845' MSL. Trees beginning 2649' from DER, 774' left of centerline, up to 90' AGL/867' MSL. **Rwy 18**, trees and spire beginning 592' from DER, 63' right of centerline, up to 63' AGL/835' MSL. Trees beginning 508' from DER, 87' left of centerline, up to 71' AGL/843' MSL. **Rwy 27**, trees beginning 1195' from DER, 241' right of centerline, up to 90' AGL/861' MSL. Trees beginning 1714' from DER, 49' left of centerline, up to 89' AGL/860' MSL. **Rwy 36**, tree and building beginning 845' from DER, 212' right of centerline, up to 58' AGL/836' MSL. Trees beginning 1193' from DER, 240' left of centerline, up to 61' AGL/839' MSL.

EAST CENTRAL VOL 3

DWIGHT, IL

DWIGHT (DTG)
ORIG 11265 (FAA)TAKE-OFF MINIMUMS: **Rwys 18, 36**, NA - Environmental.

NOTE: **Rwy 9**, buildings and silos beginning 8' from DER, 169' left of centerline, up to 55' AGL/684' MSL. Trees 257' from DER, 383' left of centerline, up to 100' AGL/729' MSL. Vehicle on road 185' from DER, left and right of centerline, up to 15' AGL/639' MSL.

NECEDAH, WI

NECEDAH (DAF)
ORIG 11265 (FAA)

NOTE: **Rwy 18**, road beginning at DER, left and right of centerline, up to 15' AGL/934' MSL. Trees and buildings beginning at DER, 446' left of centerline, up to 100' AGL/1019' MSL. Trees and buildings beginning at DER, 317' right of centerline, up to 100' AGL/1019' MSL. **Rwy 36**, trees beginning 711' from DER, 687' left of centerline, up to 100' AGL/1021' MSL. Power lines, building and railroad beginning 19' from DER, 268' right of centerline, up to 100' AGL/1012' MSL.

PINCKNEYVILLE, IL

PINCKNEYVILLE-DU QUOIN (PJY)
ORIG 11265 (FAA)

NOTE: **Rwy 18**, vehicle on road beginning at DER, 340' left of centerline, 15' AGL/409' MSL. Power lines and vehicle on road beginning 507' from DER, left and right of centerline, up to 40' AGL/434' MSL. **Rwy 36**, trees beginning 1740' from DER, 724' right of centerline, up to 100' AGL/495' MSL.

NORTH CENTRAL VOL 1

SLAYTON, MN

SLAYTON MUNI (DVP)
ORIG 11265 (FAA)

NOTE: **Rwy 17**, trees beginning 951' from DER, 345' right of centerline, up to 100' AGL/1723' MSL. Power lines beginning 1531' from DER, left and right of centerline, 40' AGL/1663' MSL. Vehicle on road beginning at DER, 234' right of centerline, 15' AGL/1638' MSL. Terrain beginning 65' from DER, left and right of centerline up to 1657' MSL. **Rwy 35**, trees beginning 1034' from DER, left and right of centerline, up to 100' AGL/1715' MSL. Power lines beginning 892' from DER, 206' left of centerline, 40' AGL/1655' MSL. Vehicle on roads beginning at DER, 230' left and right of centerline, 15' AGL/1630' MSL. Terrain beginning 271' from DER, left and right of centerline up to 1650' MSL.

NORTH CENTRAL VOL 3

OTTUMWA, IA

OTTUMWA RGNL (OTM)
ORIG-A 11265 (FAA)

TAKE-OFF MINIMUMS: **Rwys 4, 22**, NA-Runway data. NOTE: **Rwy 13**, pole 2026' from DER, 961' left of centerline, 60' AGL/898' MSL. **Rwy 31**, trees beginning 792' from DER, 658' left of centerline, up to 65' AGL/885' MSL. Trees beginning 1571' from DER, 796' right of centerline, up to 100' AGL/919' MSL.

RED OAK, IA

RED OAK MUNI (RDK)
AMDT 3 11265 (FAA)

TAKE-OFF MINIMUMS: **Rwys 13, 31**, NA - Environmental. **Rwy 5**, 600-2¼ or std. with min. climb of 287' per NM to 1800. **Rwy 23**, 300-1¼ or std. with min. climb of 263' per NM to 1500. **Rwy 35**, 300-2 or std. w/min. climb of 284' per NM to 1400.

DEPARTURE PROCEDURE: **Rwy 5**, climb heading 054° to 1800 before proceeding eastbound.

NOTE: **Rwy 5**, towers, trees, pole and windmill beginning 1744' from DER, 51' right of centerline, up to 370' AGL/1557' MSL. Vehicles on road, trees and fence beginning 45' from DER, 150' left of centerline, up to 100' AGL/1144' MSL. **Rwy 17**, train on railroad track and trees beginning 1095' from DER, on centerline, up to 100' AGL/1160' MSL. **Rwy 23**, terrain, train on railroad track, trees and poles beginning 61' from DER, 30' right of centerline, up to 100' AGL/1319' MSL. Train on railroad track and trees beginning 1111' from DER, 33' left of centerline, up to 67' AGL/1168' MSL. **Rwy 35**, vehicles on road beginning 700' from DER, on centerline, 15' AGL/1070' MSL. Hangers, trees, power poles, buildings and silos beginning 435' from DER, 323' right of centerline, up to 100' AGL/1269' MSL. Terrain, power pole and trees beginning 828' from DER, 564' left of centerline, up to 100' AGL/1319' MSL.

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NORTH CENTRAL VOL 3 (CON'T)

STORM LAKE, IA

STORM LAKE MUNI (SLB)

ORIG 11265 (FAA)

TAKE-OFF MINIMUMS: **Rwys 6,24**, NA - Turf.

NOTE: **Rwy 13**, trees beginning 1730' from DER, 390' left of centerline, up to 100' AGL/1567' MSL. **Rwy 17**, fence posts beginning 120' from DER, 450' left of centerline, up to 11' AGL/1491' MSL. **Rwy 31**, trees beginning 778' from DER, 547' left of centerline, up to 100' AGL/1577' MSL. Vehicle on road beginning 227' from DER, 220' left and right of centerline, up to 15' AGL/1492' MSL.

SOUTH CENTRAL VOL 1

WARREN, AR

WARREN MUNI (3M9)

ORIG 11265 (FAA)

NOTE: **Rwy 3**, trees beginning at DER, 190' left and right of centerline, up to 100' AGL/335' MSL. Vehicle on road, building, and hangar beginning 2' from DER, 192' right of centerline, up to 22' AGL/257' MSL. **Rwy 21**, trees beginning at DER, 172' left and right of centerline, up to 100' AGL/297' MSL. Terrain rising 115' from DER, 13' left and right of centerline, up to 210' MSL.

SOUTH CENTRAL VOL 2

CORSICANA, TX

C. DAVID CAMPBELL FLD-CORSICANA MUNI (CRS)

ORIG 11265 (FAA)

TAKE-OFF MINIMUMS: **Rwys 2,20**, NA - Turf.

NOTE: **Rwy 14**, trees beginning 188' from DER, 43' left and right of centerline, up to 48' AGL/480' MSL. Terrain beginning 64' from DER, 16' left and right of centerline, 440' MSL. Vehicle on road 201' from DER, 349' right of centerline, 15' AGL/446' MSL. Power lines beginning 1071' from DER, 749' left of centerline, 40' AGL/479' MSL. **Rwy 32**, trees beginning 208' from DER, 317' left and right of centerline, up to 51' AGL/500' MSL. Poles beginning 583' from DER, 384' right of centerline, up to 35' AGL/484' MSL. Bush, 70' from DER, 493' left of centerline, 11' AGL/460' MSL. Vehicle on road beginning 482' from DER, on runway centerline, 15' AGL/468' MSL.

SHERMAN, TX

SHERMAN MUNI (SWI)

ORIG 11265 (FAA)

TAKE-OFF MINIMUMS: **Rwy 34**, 300-1½ or std. w/min. climb of 267' per NM to 1100.

DEPARTURE PROCEDURE: climb heading 339° to 1500' before turning right.

NOTE: **Rwy 16**, trees beginning 20' from DER, 240' right of centerline, up to 30' AGL/739' MSL. Power lines beginning 1057' from DER, left to right of centerline, up to 150' AGL/825' MSL. **Rwy 34**, tower 1.2 NM from DER, 1026' left of centerline, 164' AGL/938' MSL.

SOUTH CENTRAL VOL 3

BALLINGER, TX

BRUCE FIELD (E30)

ORIG 11265 (FAA)

NOTE: **Rwy 17**, trees beginning 1902' from DER, 661' right of centerline, up to 100' AGL/1859' MSL. **Rwy 35**, trees, building, and road beginning 29' from DER, 210' left of centerline, up to 100' AGL/1839' MSL. Tree and poles beginning 887' from DER, 429' right of centerline, up to 37' AGL/1772' MSL.

SOUTH CENTRAL VOL 5

CLEVELAND, TX

CLEVELAND MUNI (6R3)

AMDT 1 11265 (FAA)

DEPARTURE PROCEDURE: **Rwy 16**, climb heading 157° to 1400 before turning right. **Rwy 34**, climb heading 312° to 2000 before proceeding on course.

NOTE: **Rwy 16**, trees beginning abeam DER, right and left of centerline, up to 100' AGL/239' MSL. **Rwy 34**, trees beginning 120' from DER, 243' left of centerline, up to 100' AGL/259' MSL. Trees and poles beginning 225' from DER, 363' right of centerline, up to 100' AGL/220' MSL. Vehicles on road 738' from DER, right and left of centerline, up to 19' AGL/169' MSL.

SOUTH EAST VOL 4

BRUNSWICK, GA

MALCOLM-MCKINNON (SSI)

AMDT 2A 11265 (FAA)

TAKE-OFF MINIMUMS: **Rwys 4, 16, 22, 34**, 400-1.DEPARTURE PROCEDURE: **Rwy 22**, climb runway heading to 400 before turning west.

NOTE: **Rwy 4**, trees and poles beginning 57' from DER, 11' right of centerline, up to 66' AGL/114' MSL. Trees and poles beginning 11' from DER, 13' left of centerline, up to 79' AGL/116' MSL. Buildings beginning 54' from DER, 200' right of centerline to 655' left of centerline, up to 33' AGL/55' MSL. **Rwy 16**, trees and poles beginning 59' from DER, 7' right of centerline, up to 12' AGL/119' MSL. Trees and poles beginning 14' from DER, 7' left of centerline, up to 66' AGL/82' MSL. Towers beginning 2237' from DER, 17' right of centerline to 353' right of centerline, up to 66' AGL/121' MSL. **Rwy 22**, trees beginning 45' from DER, 32' right of centerline, up to 77' AGL/98' MSL. Trees beginning 16' from DER, 5' left of centerline, up to 60' AGL/111' MSL. Pole 3753' from DER, 251' right of centerline up to 111' AGL/122' MSL. **Rwy 34**, trees and poles beginning 82' from DER, 2' right of centerline, up to 60' AGL/109' MSL. Trees and poles beginning 37' from DER, 3' left of centerline, up to 76' AGL/114' MSL. Buildings beginning 1018' from DER, 160' right of centerline to 299' left of centerline, up to 33' AGL/51' MSL.

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SOUTH WEST VOL 4

GLENDAL, AZ

LUKE AFB (KLUF),

GLENDAL, AZ AMDT 4,

11265

DEPARTURE PROCEDURE:

Rwy 3L, 3R, Climb heading 030° to LUF 4 DME, then climbing left turn on a heading between 320° CW to 360° from DER. Expect RADAR vectors on course from Luke RAPCON.

Rwy 21L, 21R, Climb heading 210° to LUF 8 DME, then climb on a heading between 180° CW to 222° from DER. Expect RADAR vectors on course from Luke RAPCON.

TAKE-OFF OBSTACLES:

Rwy 3L: Taxiing aircraft, 19' AGL/1126' MSL, 1221' from

DER, 782' left of centerline. Taxiing aircraft, 19' AGL/

1126' MSL, 1407' from DER, 609' left of centerline.

Weather equipment, 15' AGL/1117' MSL, 759' from DER,

505' right of centerline. Weather equipment, 15' AGL/

1117' MSL, 1209' from DER, 505' right of centerline.

Building, 20' AGL/1127' MSL, 1620' from DER, 925' left of centerline.

Rwy 21L: Taxiing aircraft, 38' AGL/1120' MSL, 1428' from DER, 774' left of centerline.

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